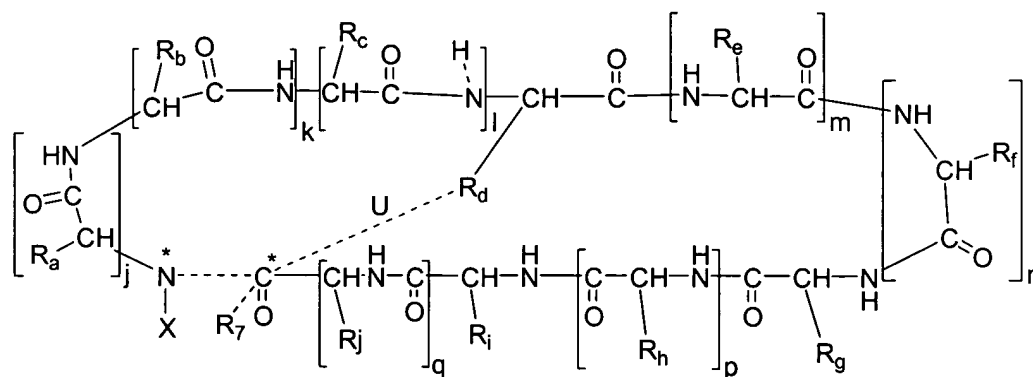


AMENDMENTS TO THE CLAIMS

1-40. (Cancelled)

41. (Currently amended) A compound of the general formula XII

(XII)



representing a peptide sequence wherein the amino acid residues may be D- and/or L-forms, and having the N-terminal at N* and the C-terminal at C* and being optionally cyclic via a covalent bond between N* and C* as shown by a broken line or between R_d and C* as shown by the broken line U; and wherein:

X represents an N-terminal moiety such as a photoprobe capable of being bond to the amino terminal N*, or an acyl group derived from a C(2-22)alkyl carboxylic acid, such as acetic acid, propionic acid, butyric acid and other fatty acids, such as behenic acid, optionally substituted with one or more substituents selected from the group consisting of hydroxy, halogen, C(1-6)alkyl, nitro and cyano; or X represents hydrogen;

R_7 represents OH, NH_2 , $NHNH_2$ or OR_8 when the bond between N^* and C^* is missing, or R_7 is absent when there is a bond between N^* and C^* ;

R_8 represents H or a straight or branched C(1-6)alkyl group, an aryl or an aralkyl group;

R_a represents the amino acid side chain of Hyp or Pro, which side chain is cyclized by attachment to the N atom bonded to the C atom to which R_a is attached;

R_b represents the amino acid side chain of Hyp or Pro, which side chain is cyclized by attachment to the N atom bonded to the C atom to which R_a is attached;

R_c represents the amino acid side chain of Gly, Sar, an aromatic amino acid side chain optionally substituted with one or more of hydroxy, halogen or lower alkoxy group in the aromatic ring;

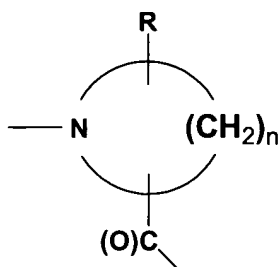
R_d represents the amino acid side chain of Ala, Gly, Glu, Asp, Dab, Dapa, Lys, Asn, Gln, Orn, or Cys;

R_e represents the amino acid side chain of Ala;

R_f represents the amino acid side chain of Ala, Sar or Gly;

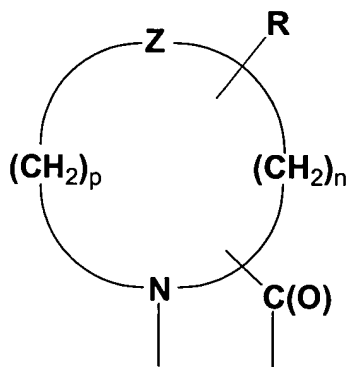
R_g represents any amino acid side chain except the side chain of L-4Hyp or R_g forms a moiety of formula II or IIa, together with the C atom to which R_g is bonded and the N atom bonded to said C atom,

wherein formula II is represented by:



wherein n is an integer having the value 3, 4, or 5, and R represents an optional substituent selected from the group consisting of halogen, phenyl, hydroxy, NH_2 , and $\text{C}(1-6)\text{alkyl}$, and

wherein formula IIa is represented by



wherein n is an integer having the value 0, 1, 2, and 3, p is an integer having the value 0, 1, 2, and 3, Z represents O or S, and R represents an optional substituent selected from the group consisting of halogen, phenyl, hydroxy, NH_2 and $\text{C}(1-6)\text{alkyl}$;

R_h represents the amino acid side chain of Ala, or R_h ~~represents~~ forms a moiety of formula II or IIa, together with the C atom to which R_h is bonded and the N atom bonded said C atom;

R_i represents the amino acid side chain of Gly or R_i represents an aromatic amino acid side chain optionally substituted with one or more halogen groups in the aromatic ring;

R_j represents the amino acid side chain of Asn, Gln, Asp, Glu, Cys or Tyr;

and each of j, k, l, m, n, p and q is independently 0 or 1;

and the retro form, all D form, or retro all-D form of the peptide sequence of formula XII, and salts and amides thereof.

42. (Withdrawn) The compound according to claim 41 wherein X is selected from the group consisting of Ac and the photoprobes ASAL, optionally iodinated in position 5 to yield the group 2-hydroxy-4-azido-5-iodo benzoyl, and AB.

43. (Withdrawn) The compound according to claim 41, wherein R₇ is NH₂.

44. (Withdrawn - currently amended) The compound according to claim 41, wherein R_a is the amino acid side chain of Pro, which side chain is cyclized by attachment of the N atom bonded to the C atom to which R_a is attached.

45. (Withdrawn - currently amended) The compound according to claim 41, wherein R_b is the amino acid side chain of Hyp, which side chain is cyclized by attachment to the N atom bonded to the C atom to which R_b is attached.

46. (Withdrawn) The compound according to claim 41, wherein R_c is the amino acid side chain of Gly or Tyr.

47. (Previously presented) The compound according to claim 41, wherein R_d is selected from the group consisting of the amino acid side chain of Gly, Asp, Glu, Dapa, and Dab.

48. (Withdrawn - currently amended) The compound according to claim 41, wherein R_f is the amino acid side chain of Ala or Gly.

49. (Currently amended) The compound according to claim 41, wherein R_g is the amino acid side chain of Pro, Asn or Gly, wherein, when R_g is the amino acid side chain of Pro, the side chain is cyclized by attachment to the N atom bonded to the C atom to which R_g is attached.

50. (Currently amended) The compound according to claim 41, wherein R_g is the amino acid side chain of Asn, Gly, D-4Hyp or L-/D-Pro when formula XII represents a linear peptide, wherein, when R_g is the amino acid side chain of D-4Hyp or L-/D-Pro, the side chain is cyclized by attachment to the N atom bonded to the C atom to which R_g is attached.

51. (Withdrawn - currently amended) The compound according to claim 41 wherein R_h is the amino acid side chain of Ala when U is missing, or R_h is the amino acid side chain of Pro or Hyp when U is present, wherein, when R_h is the side chain of Pro or Hyp, the side chain is cyclized by attachment to the N atom bonded to the C atom to which R_h is attached.

52. (Withdrawn) The compound according to claim 41, wherein R_i is the amino acid side chain of Tyr, Phe, Trp, or Nal, optionally substituted with one or more of hydroxy, F, or Cl, in the aromatic ring.

53. (Withdrawn) The compound according to claim 41, wherein R_j is selected from the group consisting of the amino acid side chain of Asp, Glu, and Tyr.

54. (Withdrawn) A linear peptide according to claim 41 of formula XII which is an retro all-D form.

55. (Withdrawn) The peptide compound of formula XII consisting of between 3 and 9 amino acid residues, wherein j and k are 0 when U is present, j and k are 1 when U is missing and formula XII represents a cyclic peptide, m is 0 when U is missing, p is 1 when U is present, and q is 0 when U is present.

56-162. (Cancelled).

163. (Withdrawn - currently amended) The compound according to claim 41 wherein:

X is H, Ac, TFa, DBF, ASAL optionally iodinated, or HP;

R_c is the side chain of Gly or Sar, or l is 0;

R_d is the side chain of Ala, D-Ala, or Gly;

m is 0;

R_g is the side chain of L-Hyp, D-Hyp, Pro, D-Pro, Ncg, A2C, Sar, Gly, Asn, D-Asn, T4c, Pc, Lys, or Thio-Pro if the compound is a cyclic compound, or R_g is the side chain of D-Hyp, Pro, D-Pro, Ncg, A2C, Sar, Gly, Asn, D-Asn, T4c, Pc, Lys, or Thio-Pro if the compound is a linear peptide;

R_h is the side chain of Pro, D-Pro, Ala, D-Hyp, Asn, or Thio-Pro, or p is 0;

R_i is the side chain of Gly or Phe, D-Phe, Tyr, or D-Tyr, wherein the aromatic ring is optionally substituted with one or more halogen groups;

R_j is the side chain of Gln, Asn, D-Asp, or Cys, or q = 0

R₇ is OH or NH₂, or is absent if the compound is cyclized between N* and C*₁,

wherein when R_g or R_h is the amino acid side chain of Pro or Hyp, the side chain is cyclized by attachment to the N atom bonded to the C atom to which R_g or R_h is attached.

164. (Withdrawn - currently amended) The compound of claim 41 or claim 163, wherein n is 1.

165. (Withdrawn - currently amended) The compound of claim 41 163, wherein said compound is cyclo(-Gly-Ala-Gly-Hyp-Pro-Tyr-Asn-) (SEQ ID NO:287).

166. (Withdrawn) The compound of claim 41, wherein said compound is cyclo(-Tyr-Pro-4Hyp-Gly-Ala-Gly-Asn-) (SEQ ID NO:174).

167. (Withdrawn) The compound of claim 41, wherein said compound is cyclo(-Gly-Ala-Gly-Pro-Pro-Tyr-Asn-) (SEQ ID NO:288).

168. (Withdrawn) The compound of claim 41, wherein said compound is cyclo(-Gly-Ala-Gly-Pro-Pro-Tyr-Gln-).

169. (Withdrawn) The compound of claim 41, wherein said compound is Gly-Ala-Gly-Pro-Pro-Tyr-NH₂.

170. (Withdrawn) The compound of claim 41, wherein said compound is Ac-D-Tyr-D-Pro-D-Pro-Gly-D-Ala-Gly-NH₂.

171. (Withdrawn) The compound of claim 41, wherein said compound is Ac-D-Tyr-D-Hyp-D-Hyp-Gly-D-Ala-Gly-NH₂.

172. (Withdrawn) The compound of claim 41, wherein said compound is Gly-Ala-Gly-Asn-Tyr-NH₂.

173. (Withdrawn) The compound of claim 41, wherein said compound is Ala-Gly-Asn-Tyr.

174. (Withdrawn) The compound of claim 41, wherein said compound is Gly-Ala-Asn-Tyr-NH₂.

175. (Withdrawn) The compound of claim 41, wherein said compound is Ac-Ala-Gly-Asn-Tyr.

176. (Withdrawn) The compound of claim 41, wherein said compound is Ac-Gly-Asn-Tyr.

177. (Withdrawn) The compound of claim 41, wherein said compound is Gly-Asn-Tyr.

178. (Withdrawn) The compound of claim 41, wherein said compound is Ac-D-Tyr-D-Asn-Gly-NH₂.

179. (Withdrawn) The compound of claim 41, wherein said compound is D-Tyr-D-Asn-Gly-NH₂.

180. (Withdrawn) The compound of claim 41, wherein said compound is Gly-D-Asn-Tyr.

181. (Withdrawn) The compound of claim 41, wherein said compound is Tyr-Asn-Gly-NH₂.

182. (Withdrawn) The compound of claim 41, wherein said compound is Gly-Gly-Tyr-NH₂.

183. (Withdrawn) The compound of claim 41, wherein said compound is Gly-D-Asn-Tyr-NH₂.

184. (Withdrawn) The compound of claim 41, wherein said compound is Tyr-D-Asn-Gly.

185. (Withdrawn) The compound of claim 41, wherein said compound is Ac-Tyr-D-Asn-Gly.

186. (Withdrawn) The compound of claim 41, wherein said compound is Ac-Gly-D-Asn-Tyr-NH₂.

187. (Withdrawn) The compound of claim 41, wherein said compound is Tyr-D-Asn-Gly-NH₂.

188. (Withdrawn) The compound of claim 41, wherein said compound is Ac-Tyr-D-Asn-Gly-NH₂.

189. (Withdrawn) The compound of claim 41, wherein said compound is Gly-Ala-Tyr-NH₂.

190. (Withdrawn) The compound of claim 41, wherein said compound is Ac-Gly-Ala-Tyr-NH₂.

191. (Withdrawn) The compound of claim 41, wherein said compound is Gly-Asp-Tyr-NH₂.

192. (Withdrawn) The compound of claim 41, wherein said compound is Tyr-Asn-Gly.

193. (Withdrawn) The compound of claim 41, wherein said compound is Tyr-Asp-Gly.